



Massachusetts Bay Transportation Authority

MBTA Contract R19PS03 PM/CM Services: Amendment No. 6

Red Line/Orange Line Improvements Program

February 12, 2018

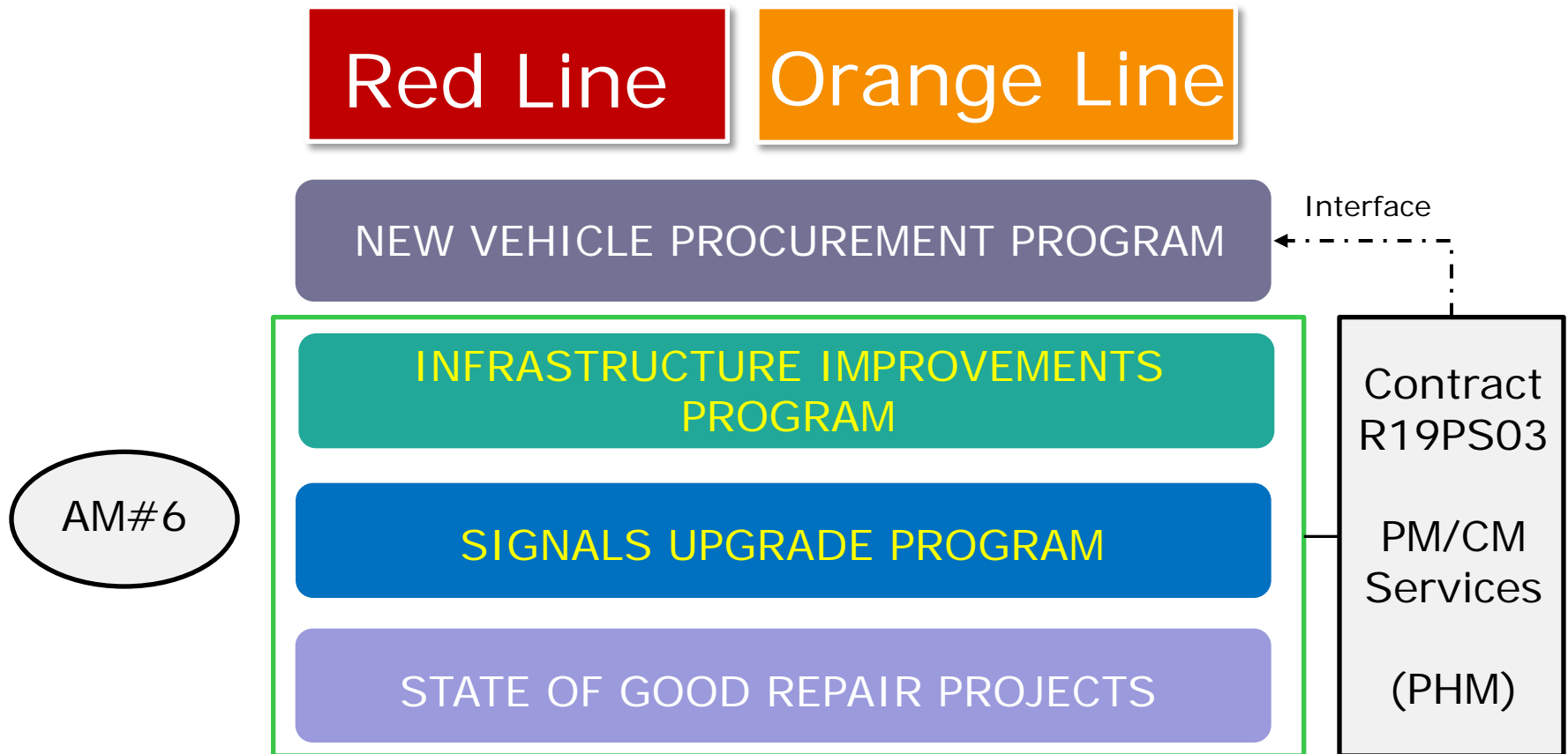


Overview

- Today's board action will allow the continuation of Program Management / Construction Management (PM/CM) services provided by Patrick Engineering and Mott MacDonald, LLC JV (PHM) for the Red Line/Orange Line Infrastructure Improvements and Signal Upgrade Programs.
- This action will provide PMCM services through February, 2019.

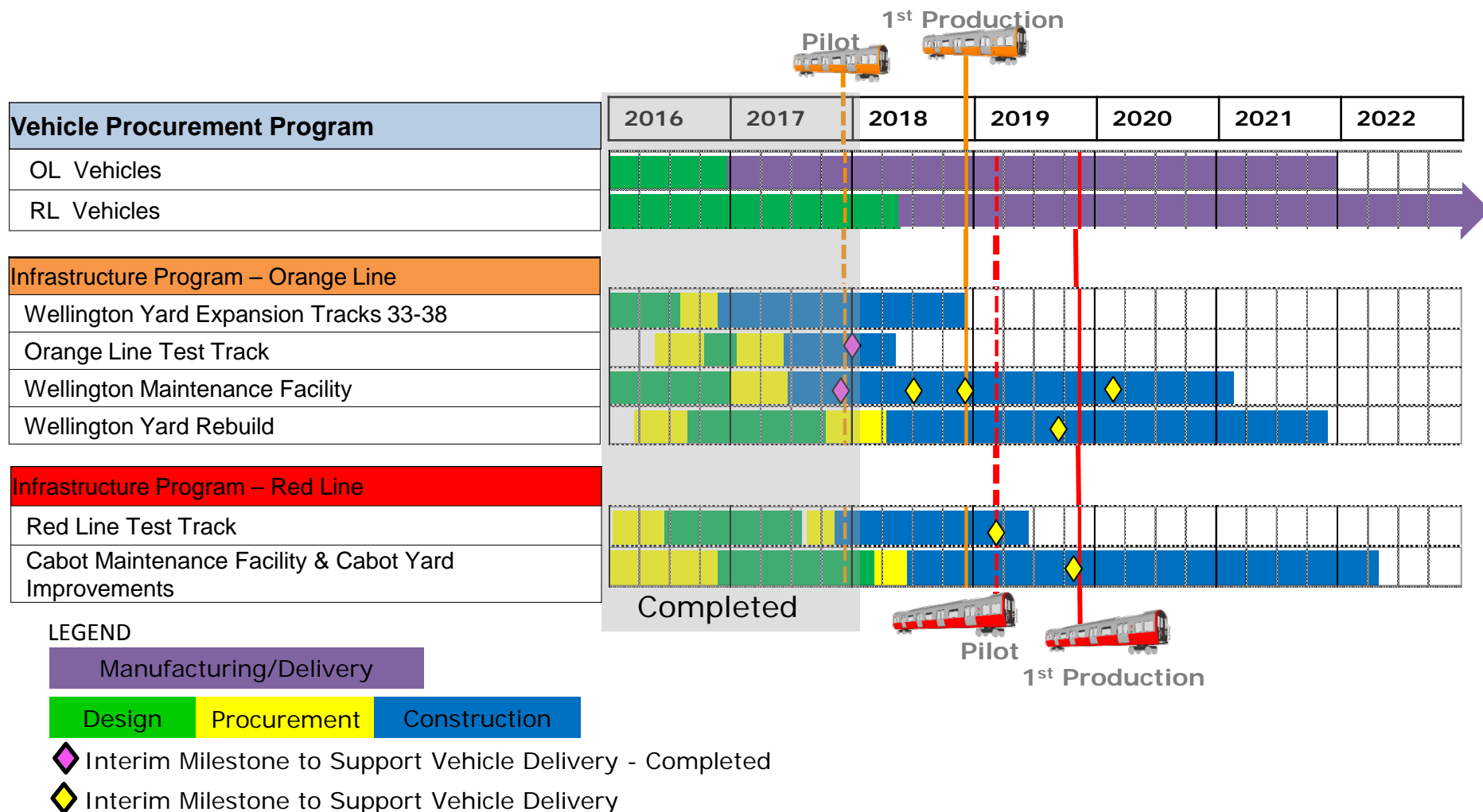


Red Line/Orange Line Improvement Program



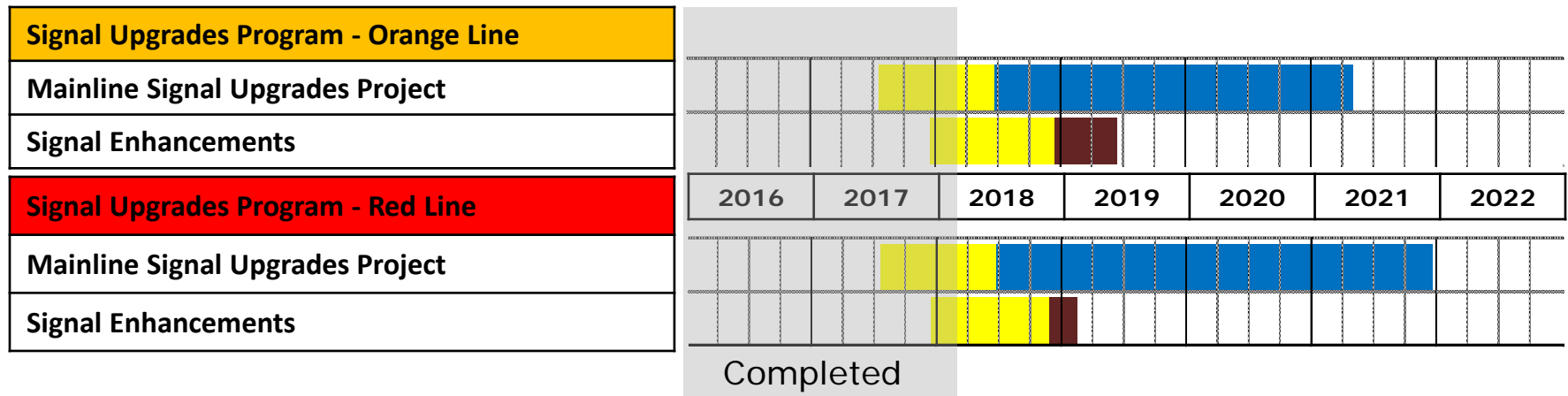


Red Line and Orange Line Schedule by Project





Red Line/Orange Line Schedule – Signals Upgrades



LEGEND





PM/CM Scope of Services - Infrastructure Improvements / Signal Upgrades

Base Contract & Previous Amendments

- Type Studies, Strategic Program Plan
- Procure Designers of Record & Contactors
- Design Reviews and Coordination
- Construction Planning: Interface Mgmt. of Four Infrastructure Projects
- Prepare, Complete & Advertise Bid
- Perform CM Services & Contractor Oversight
- Program Monitoring and Reporting.
- Conceptual Signals Design Document
- Signals Strategic Program Plan
- Develop and Issue Signal Upgrade RFP
- Quality and Safety Oversight
- Change & Claims Management

Amendment No. 6

- Prepare, Complete & Advertise Bid
- Perform CM Services & Contractor Oversight
- Program Monitoring and Reporting.
- Construction Planning: Interface Mgmt. of Six Infrastructure Projects
- Design Reviews and Coordination for the Signal Design-Build Project
- Quality and Safety Oversight
- Change & Claims Management



Amendment #6 Continuation of PM/CM Services

Red Line Orange Line Infrastructure Improvement Projects (Cost in Millions)	TOTAL Budget	Anticipated Construction Advertisement Date
Infrastructure Program		
Orange Line Test Track	\$ 7.80 M	✓ Mar. 2017
Wellington Yard Expansion - Tracks 33 to 38	\$ 22.37 M	✓ Oct. 2016
Wellington Maintenance Facility	\$ 86.89 M	✓ Mar. 2017
Wellington Yard Rebuild Vehicle Critical – Infrastructure	\$ 148.92 M	✓ Feb. 2018
Red Line Test Track	\$ 25.40 M	✓ Aug. 2017
Cabot Yard & Maintenance Facility Improvements	\$ 290.52 M	Mar. 2018
Signal Systems RL Enhancements	\$ 3.40 M	✓ Dec. 2017
RL/OL Program Level (PM/CM, OR & Project Admin.)	\$ 71.34 M	
Unallocated Contingency	\$ 48.76 M	
Subtotal	\$ 705.40 M	
Signals Program		
Orange Line Signaling and Train Control Systems Upgrade	\$ 72.70 M	
Southwest Corridor Wayside Signal Replacement	\$ 39.34 M	
Red Line Signaling and Train Control Systems Upgrade	\$ 77.15 M	
Columbia Junction Phase II	\$ 28.94 M	
RL/OL Program Level (PM/CM, OR & Project Admin.)	\$ 36.74 M	
Unallocated Contingency	\$ 12.76 M	
Subtotal	\$ 267.63M	
Total	\$973.03M	



Request of the Fiscal and Management Control Board

Staff request that the Fiscal and Management Control Board authorize the MBTA General Manager & CEO, or his designee, to award and execute Amendment No. 6 for Professional Services Contract R19PS03: PM/CM Services for the Red Line/Orange Line Infrastructure Improvements Program & Signal Upgrades (Continuation of PMCM Services) with Patrick Engineering and Mott MacDonald Joint Venture (PHM) for an amount not to exceed \$19,387,980.